

Art Unit: ***

CImpto

September 13, 2004

C.P.

1. (Amended) A motor vehicle headlamp, comprising a light source for generating light, a mirror possessing first and second focal regions, and a converging lens, the source being placed in the first focal region and the lens having a focus located in the second focal region, the mirror and the lens having axes which are essentially coincident defining an optical axis of headlamp, and the headlamp further including a mask located in the region of the focus of the lens, in order thus to project a beam having an upper cut-off defined by said mask, and the mirror having at least a first area for) concentrating the light in the vertical direction, towards a vertical focusing baseline extending substantially horizontally and transversely to the optical axis and passing close to the focus of the lens, wherein the mirror further comprises at least one corrected vertical focusing area for concentrating the light, in the vertical direction, towards a second vertical focusing baseline separate from said vertical focusing baseline in the axial direction, in order thus to increase a width of the light reflected by said first area along said optical axis.

2. (Amended) A headlamp as claimed in claim 1, wherein said at least one corrected vertical focusing area comprise two corrected focusing areas, situated on either said of an axial vertical plane.

3. A headlamp as claimed in claim 2, wherein said areas are extreme lateral areas of the mirror.

Art Unit: ***

4. (Amended) A headlamp as claimed in claim 1, wherein the second vertical focusing line disposed further in the axial direction than said vertical focusing baseline.

5. (Amended) A headlamp as claimed in claim 1, wherein the mirror further comprises at least one vertical offsetting area for offsetting the light in at least one direction vertically upwards or downwards with respect to the vertical focusing baseline.

6. A headlamp as claimed in claim 5, comprising a vertical offsetting area located in the central region of the mirror and adapted to offset the light upwards, and two vertical offsetting areas located on either side of said central region and adapted to offset the light downwards.

Art Unit: ***

7. (Amended) A headlamp as claimed in claim 5, wherein the vertical offsetting area is constructed from sections of axisymmetric ellipsoids a first focus of which is situated above or below the source and a second focus of which is situated on a vertical focusing line associated with said vertical offsetting area.

8. A headlamp as claimed in claim 7, wherein the first focus of each ellipsoidal section is situated substantially in the vertical to the center of the source.

9. A headlamp as claimed in claim 8, wherein the vertical distances between the first focuses of the various ellipsoidal sections and the center of the source vary progressively from one section to the other.

10. A headlamp as claimed in claim 9, wherein, from the back of the mirror to its lateral edges, said vertical distances pass progressively from a first value corresponding to a first focal position situated below the source to a second value, of opposite sign, corresponding to a first focal position situated above the source.

11. A headlamp as claimed in claim 10, wherein, in the region of the lateral edges of the mirror, said vertical distance is essentially zero.